BRUHAT BANGALORE MAHANAGARA PALIKE

NAME OF WORK:-Asphalting to main and cross roads at DeoMarvells layout in ward no-03 Yelahanka Satellite Town sub Division

								Estimation Cost.Rs	20000000.00
Sl No	Description of work	Unit	Mesurement No.	L	B	D	Qty	Rate	Amount
1	KSRRB 300-1. **Earthwork excavation by manual means for roads,** drains & similar works in ordinary soil excavated surface levelled and sides neatly dressed, the disposed earth to be levelled neatly after breaking of clods complete as per specifications(P.No-143 &136 ,I No-19.1&17.4& 17.1) 5km lead= 57+2.0x1.28x5 =69.80								
	Over Burden								
	4th Cross Road (From Anathapura Main Road) Entrance								
		Cum	1.00	12.60	0.80	0.50	5.04		
	LHS	Cum	1.00	257.80	0.80	0.50	103.12		
	Royal Kempegowda Entrance	Cum	1.00	3.30	0.80	0.50	1.32		
	RHS	Cum	1.00	257.80	0.80	0.50	103.12		
	Royal Kempegowda Entrance	Cum	1.00	3.30	0.80	0.50	1.32		
	Royal Kempegowda	Cum	1.00	5.00	0.80	0.50	2.00		
	Royal Kempegowda to								
	4th Main Road (Double Road)								
	LHS	Cum	1.00	391.50	0.86	0.50	168.96		
	Temple Left Side	Cum	1.00	10.80	0.80	0.50	4.32		
	RHS (Varasiddhi Vinayaka	Cum	1.00	299.50	0.87	0.50	129.58		
	3rd Main Road	Cum	1.00	7.30	0.80	0.50	2.92		
	LHS	Cum	1.00	34.50	0.90	0.50	15.53		
	RHS	Cum	1.00	34.50	0.80	0.50	13.80		
	LHS	Cum	1.00	85.20	0.88	0.50	37.40		
	RHS	Cum	1.00	66.40	0.80	0.50	26.56		
	LHS	Cum	1.00	74.00	0.88	0.50	32.73		
	RHS	Cum	1.00	62.50	0.90	0.50	28.13		
	LHS	Cum	1.00	77.40	0.88	0.50	34.00		
	RHS	Cum	1.00	72.10	0.88	0.50	31.88		
	Main Road to Commanders								
	4th Cross Road	Cum	1.00	35.00	0.80	0.50	14.00		
	3rd Cross Road	Cum	1.00	35.00	0.80	0.50	14.00		
	Rain Water Harvesting								
		Cum	5.00		0.31	1.80	2.79		
				(3.142X0.63X0.63)/4=0.31					
	Basic rate	130.00							
	Area weightage 6%	7.80							
	5Km lead & Lift= 57+(2*1.28*5)	69.80							
	Sub Total	207.60							
	Total						772.51	207.60	160372.36
2	KSRB 4-1.6 ; Providing and laying in position plain cement concrete of Mix 1:2:4 with OPC @ 240kgs, with 20mm and down size graded granite metal coarse aggregates @ 0.878 cum and fine aggregtes @ 0.53cum, machine mixed, concrete laid in layers not exceeding 15 cms. thick, well compacted, in foundation, plinth and cills, including cost of all materials, labour, HOM curing complete as per specifications. Specification No. KBS 4.1, 4.2. (P.No-13,I No-4.6)								
	Kerb Stone								

Sl No	Description of work	Unit	Mesurement				Qty	Rate	Amount
			No.	L	B	D			
	4th Cross Road (From Anathapura Main Road) Entrance	Cum	2.00	123.30	0.20	0.05	2.47		
	Basic rate	5422.00							
	Area weightage 6%	325.32							
	Sub Total	5747.32							
	Total						2.47	5747.32	**14172.89**
3	Providing and fixing **pre cast solid cement concrete kerb stones** made out of CC 1:2:4 with top and bottom width 114 and 165 mm respectively, 400mm high and 450mm in length finished with CM 1:3 plastering and finishing cutting including formwork, curing, including cost of materials, labour charges of machinery, loading and unloading, lead and lift, transportation ete.,complete. As per the direction of Engineer incharge. (P.No.27, I.No.5.30 of PW, P&IWTD SR 2018-19)								
	Kerb Stone								
	4th Cross Road (From Anathapura Main Road) Entrance	M	2.00	123.30			246.60		
						Sub Total	**246.60**		
	Total length						246.60		
	No of Kerb Stones	Nos			Total Length/0.45		548.00		
	Sub Total	Nos					**548.00**		
	Basic rate	408.00							
	Area weightage 6%	24.48							
	Sub Total	432.48							
	Total						548.00	432.48	**236999.04**
4	KSRRB 800-1. **Painting two coats** after filling the surface with synthetic enamel paint in approved shades on new plastered concrete surfaces, with materials, labour complete as per specifications. MORTH Chapter 8 (Page No.180. Iitem no.24.1 of KPWD S.R Bangalore Circle 2018-2019)								
	Kerb Stone								
	4th Cross Road (From Anathapura Main Road)	Sqm	2	123.30		0.40	98.64		
	Basic rate	80.00							
	Area weightage 6%	4.80							
	Sub Total	84.80							
	Total						98.64	84.80	**8364.67**
5.00	KSRRB 300-50. Scarifying bituminous course 50mm to 75mm thick along with premix carpet / surface dressing by road roller attached with scarifier without disturbing the base and stacking the debris including cost of all labour charges, HOM of machineries complete as per specifications. MORTH / Chapter 3(P.No.146, I.No.19.56)								
	New Road								
	4th Cross Road (From Anathapura Main Road) Entrance								
		Sqm	1	12.60	10.55		132.93		
		Sqm	2	261.10	5.15		2690.90		
	Royal Kempegowda Entrance	Sqm	1.00	5.00	10.80		54.00		
	Royal Kempegowda to Vara siddhi Vinayaka Main Road								
	4th Main Road (Double Road) LHS	Sqm	1.00	391.50	6.42		2512.98		
	RHS (Varasiddhi Vinayaka temple to Royal Kempegowda Entrance)	Sqm	1.00	310.30	4.92		1527.76		
	3rd Main Road	Sqm	1.00	7.30	11.80		86.14		
	LHS	Sqm	1.00	34.50	5.00		172.50		
	RHS	Sqm	1.00	34.50	5.00		172.50		

Sl No	Description of work	Unit	Mesurement				Qty	Rate	Amount
			No.	L	B	D			
	LHS	Sqm	1.00	85.20	6.32		538.80		
	RHS	Sqm	1.00	66.40	5.00		332.00		
	LHS	Sqm	1.00	74.00	5.92		437.86		
	RHS	Sqm	1.00	62.50	5.00		312.50		
	LHS	Sqm	1.00	77.40	6.26		484.60		
	RHS	Sqm	1.00	72.10	5.78		416.59		
	Main Road to Commanders Marvels								
	4th Cross Road								
		Sqm	1.00	35.00	7.00		245.00		
	3rd Cross Road								
		Sqm	1.00	35.00	5.50		192.50		
	Basic rate	39.00							
	Area weightage 6%	2.34							
	Sub Total	**41.34**							
	Total						**10309.57**	**41.34**	**426197.48**
6.00	KSRRB 300-58. Compaction of original ground by mechanical means including filling in depression occuring during rolling including cost of all labour, HOM complete as per specifications.(I No-19.64,P No-147)								
	New Road								
	4th Cross Road (From Anathapura Main Road) Entrance								
	0.00	Sqm	1.00	12.60	10.55		132.93		
	0.00	Sqm	2.00	261.10	5.15		2690.90		
	Royal Kempegowda Entrance	Sqm	1.00	5.00	10.80		54.00		
	Royal Kempegowda to Vara siddhi Vinayaka Main Road								
	4th Main Road (Double Road) LHS	Sqm	1.00	391.50	6.42		2512.98		
	RHS (Varasiddhi Vinayaka temple to Royal Kempegowda Entrance)	Sqm	1.00	310.30	4.92		1527.76		
	3rd Main Road	Sqm	1.00	7.30	11.80		86.14		
	LHS	Sqm	1.00	34.50	5.00		172.50		
	RHS	Sqm	1.00	34.50	5.00		172.50		
	LHS	Sqm	1.00	85.20	6.32		538.80		
	RHS	Sqm	1.00	66.40	5.00		332.00		
	LHS	Sqm	1.00	74.00	5.92		437.86		
	RHS	Sqm	1.00	62.50	5.00		312.50		
	LHS	Sqm	1.00	77.40	6.26		484.60		
	RHS	Sqm	1.00	72.10	5.78		416.59		
	Main Road to Commanders Marvels								
	4th Cross Road								
	0.00	Sqm	1.00	35.00	7.00		245.00		
	3rd Cross Road								
	0.00	Sqm	1.00	35.00	5.50		192.50		
	Basic rate	6.00							
	Area weightage 6%	0.36							
	Sub Total	6.36					10309.57	6.36	65568.84
	Total								

Sl No	Description of work	Unit	Mesurement				Qty	Rate	Amount
			No.	L	B	D			
7.00	Construction of granular sub-base Grading-V as Sub-base and drainage layer by providing coarse graded crushed stone aggregates of granite/ trap/basalt material, mixing in a mechanical mix plant at OMC, Carriage of mixed material to work site, spreading in uniform layers with motor grader on prepared surface and compacting with vibratory power roller to achieve the 98 % proctor density, complete as per specifications Clause 401 of MORTH V Revision.(I No-20.5,P No-153)								
	New Road								
	4th Cross Road (From Anathapura Main Road) Entrance								
		Cum	1.00	12.60	10.55	0.15	19.94		
		Cum	2.00	261.10	5.15	0.15	403.63		
	Royal Kempegowda Entrance	Cum	1.00	5.00	10.80	0.15	8.10		
	Royal Kempegowda to Vara siddhi Vinayaka Main Road	Cum	0.00	0.00	0.00	0.15	0.00		
	4th Main Road (Double Road) LHS	Cum	1.00	391.50	6.42	0.15	376.95		
	RHS (Varasiddhi Vinayaka temple to Royal Kempegowda Entrance)	Cum	1.00	310.30	4.92	0.15	229.16		
	3rd Main Road	Cum	1.00	7.30	11.80	0.15	12.92		
	LHS	Cum	1.00	34.50	5.00	0.15	25.88		
	RHS	Cum	1.00	34.50	5.00	0.15	25.88		
	LHS	Cum	1.00	85.20	6.32	0.15	80.82		
	RHS	Cum	1.00	66.40	5.00	0.15	49.80		
	LHS	Cum	1.00	74.00	5.92	0.15	65.68		
	RHS	Cum	1.00	62.50	5.00	0.15	46.88		
	LHS	Cum	1.00	77.40	6.26	0.15	72.69		
	RHS	Cum	1.00	72.10	5.78	0.15	62.49		
	Main Road to Commanders Marvels								
	4th Cross Road								
	0.00	Cum	1.00	35.00	7.00	0.15	36.75		
	3rd Cross Road								
		Cum	1.00	35.00	5.50	0.15	28.88		
	Basic rate	1882.00							
	Area weightage 6%	112.92							
	Sub Total	1994.92							
	Total						1546.43	1994.92	3085014.04
8	KSRRB M400-17. Providing, laying, spreading and compacting cushed stone aggregates of granite / trap / basalt to wet mix macadam specifications including pre mixing the material with water at OMC in mechanical mix plant carriage of mixed materials by tipper to site, laying in uniform layers with paver in sub-base/base course on well prepared surface and compacting with vibratory roller to achieve the desired density complete as per specifications(P.No-155,I No-20.18)								
	New Road								
	4th Cross Road (From Anathapura Main Road) Entrance								
		Cum	1.00	12.60	10.55	0.23	30.57		
		Cum	2.00	261.10	5.15	0.23	618.91		
	Royal Kempegowda Entrance	Cum	1.00	5.00	10.80	0.23	12.42		
	Royal Kempegowda to Vara siddhi Vinayaka Main Road	Cum	0.00	0.00	0.00	0.23	0.00		

Sl No	Description of work	Unit	Mesurement				Qty	Rate	Amount
			No.	L	B	D			
	4th Main Road (Double Road) LHS	Cum	1.00	391.50	6.42	0.23	577.99		
	RHS (Varasiddhi Vinayaka temple to Royal Kempegowda Entrance)	Cum	1.00	310.30	4.92	0.23	351.39		
	3rd Main Road	Cum	1.00	7.30	11.80	0.23	19.81		
	LHS	Cum	1.00	34.50	5.00	0.23	39.68		
	RHS	Cum	1.00	34.50	5.00	0.23	39.68		
	LHS	Cum	1.00	85.20	6.32	0.23	123.93		
	RHS	Cum	1.00	66.40	5.00	0.23	76.36		
	LHS	Cum	1.00	74.00	5.92	0.23	100.71		
	RHS	Cum	1.00	62.50	5.00	0.23	71.88		
	LHS	Cum	1.00	77.40	6.26	0.23	111.46		
	RHS	Cum	1.00	72.10	5.78	0.23	95.82		
	Main Road to Commanders Marvels								
	4th Cross Road								
		Cum	1.00	35.00	7.00	0.23	56.35		
	3rd Cross Road					0.23	0.23		
		Cum	1.00	35.00	5.50	0.23	44.28		
	Basic rate	1888.00							
	Area weightage 6%	113.28							
	Sub Total	**2001.28**							
	Total						**2371.43**	**2001.28**	**4745895.99**
9	KSRRB 500-1.Cleaning the existing WBM Road surface including removing of binding materials and other foreign matter with wire brushes and small picks sweeping with brooms or soft brushes and finally dusting with old gunny bags and bar or compressed air to receive bituminous treatment including cost of all materials, labhour, HOM of machineries complet as per specifications.(P.No.158,I.No.21.1)								
	New Road								
	4th Cross Road (From Anathapura Main Road) Entrance								
		Sqm	1.00	12.60	10.55		132.93		
		Sqm	2.00	261.10	5.15		2690.90		
	Royal Kempegowda Entrance	Sqm	1.00	5.00	10.80		54.00		
	Royal Kempegowda to Vara siddhi Vinayaka Main Road								
	4th Main Road (Double Road) LHS	Sqm	1.00	391.50	6.42		2512.98		
	RHS (Varasiddhi Vinayaka temple to Royal Kempegowda Entrance)	Sqm	1.00	310.30	4.92		1527.76		
	3rd Main Road	Sqm	1.00	7.30	11.80		86.14		
	LHS	Sqm	1.00	34.50	5.00		172.50		
	RHS	Sqm	1.00	34.50	5.00		172.50		
	LHS	Sqm	1.00	85.20	6.32		538.80		
	RHS	Sqm	1.00	66.40	5.00		332.00		
	LHS	Sqm	1.00	74.00	5.92		437.86		
	RHS	Sqm	1.00	62.50	5.00		312.50		
	LHS	Sqm	1.00	77.40	6.26		484.60		
	RHS	Sqm	1.00	72.10	5.78		416.59		
	Main Road to Commanders Marvels								
	4th Cross Road								
		Sqm	1.00	35.00	7.00		245.00		

Sl No	Description of work	Unit	Mesurement No.	L	B	D	Qty	Rate	Amount
	3rd Cross Road								
		Sqm	1.00	35.00	5.50		192.50		
	Basic rate	21.00							
	Area weightage 6%	1.26							
	Sub Total	**22.26**							
	Total						**10309.57**	**22.26**	**229490.95**
10	KSRRB M500-6. Providing and applying primer coat with S.S. bitumen emulsion on prepared surface of granular base such as WMM including cleaning of road surface and spraying primer at the rate of 0.60 kg / sqm using mechanical means complete as per specifications Clause 502 of MORTH V revision(P.No-158,I No-21.6)								
		Sqm	From Item num 10				10309.57		
	Basic rate	32.00							
	Area weightage 6%	1.92							
	Sub Total	**33.92**							
	Total						**10309.57**	**33.92**	**349700.49**
11	KSRRB M500-17. Providing and laying dense graded bituminous macadam using crushed aggregates of specified grading, premixed with VG30 grade bituminous binder and, transporting the hot mix to work site, laying to the required grade, level and alignment, rolling with smooth wheeled, vibratory and tandem rollers to achieve the desired compaction in all respects complete as per specifications Clause 505 of MORTH V revisionusing 40/60 TPH capacity H.M.P. with Mechanical paver Gr-II (50 mm to 75 mm) with 4.5 % VG-30 Bitumen (P.No-160,I No-21.17.6)								
	New Road								
	4th Cross Road (From Anathapura Main Road)								
	0.00	Cum	1.00	12.60	10.55	0.05	6.65		
	0.00	Cum	2.00	261.10	5.15	0.05	134.54		
	Royal Kempegowda Entrance	Cum	1.00	5.00	10.80	0.05	2.70		
	Royal Kempegowda to Vara siddhi Vinayaka Main Road								
	4th Main Road (Double Road) LHS	Cum	1.00	391.50	6.42	0.05	125.65		
	RHS (Varasiddhi Vinayaka temple to Royal	Cum	1.00	310.30	4.92	0.05	76.39		
	3rd Main Road	Cum	1.00	7.30	11.80	0.05	4.31		
	LHS	Cum	1.00	34.50	5.00	0.05	8.63		
	RHS	Cum	1.00	34.50	5.00	0.05	8.63		
	LHS	Cum	1.00	85.20	6.32	0.05	26.94		
	RHS	Cum	1.00	66.40	5.00	0.05	16.60		
	LHS	Cum	1.00	74.00	5.92	0.05	21.89		
	RHS	Cum	1.00	62.50	5.00	0.05	15.63		
	LHS	Cum	1.00	77.40	6.26	0.05	24.23		
	RHS	Cum	1.00	72.10	5.78	0.05	20.83		
	Main Road to Commanders Marvels								
	4th Cross Road								
		Cum	1.00	35.00	7.00	0.05	12.25		
	3rd Cross Road								
		Cum	1.00	35.00	5.50	0.05	9.63		
	Basic rate	7008.00							
	Area weightage 6%	420.48							
	Sub Total	**7428.48**							
	Total						**515.48**	**7428.48**	**3829220.40**
12	KSRRB 500-2.Cleaning the existing black topped surface with brooms,soft brushes and finally dusting with old gunny bags and/or compressed air to receive bituminous treatment including cost of all materials,labhour, HOM of machineries complete as per specifications.(P.No.158,I.No.21.2).								

Sl No	Description of work	Unit	Mesurement				Qty	Rate	Amount
			No.	L	B	D			
	New Road								
	4th Cross Road (From Anathapura Main Road) Entrance								
	0.00	Sqm	1.00	12.60	10.55		132.93		
	0.00	Sqm	2.00	261.10	5.15		2690.90		
	Royal Kempegowda Entrance	Sqm	1.00	5.00	10.80		54.00		
	Royal Kempegowda to Vara siddhi Vinayaka Main Road								
	4th Main Road (Double Road) LHS	Sqm	1.00	391.50	6.42		2512.98		
	RHS (Varasiddhi Vinayaka temple to Royal	Sqm	1.00	310.30	4.92		1527.76		
	3rd Main Road	Sqm	1.00	7.30	11.80		86.14		
	LHS	Sqm	1.00	34.50	5.00		172.50		
	RHS	Sqm	1.00	34.50	5.00		172.50		
	LHS	Sqm	1.00	85.20	6.32		538.80		
	RHS	Sqm	1.00	66.40	5.00		332.00		
	LHS	Sqm	1.00	74.00	5.92		437.86		
	RHS	Sqm	1.00	62.50	5.00		312.50		
	LHS	Sqm	1.00	77.40	6.26		484.60		
	RHS	Sqm	1.00	72.10	5.78		416.59		
	Main Road to Commanders Marvels								
	4th Cross Road								
	0.00	Sqm	1.00	35.00	7.00		245.00		
	3rd Cross Road								
	0.00	Sqm	1.00	35.00	5.50		192.50		
	Basic rate	5.00							
	Area weightage 6%	0.30							
	Sub Total	**5.30**							
	Total						**10309.57**	**5.30**	**54640.70**
13	KSRRB 500-7. Providing and applying tack coat using 80/100 grade bitumen(VG10) on the prepared black topped surfaces at 2.5 kg per 10 sqm, heating bitumen in boiler fitted with spray set (excluding cleaning of road surface) including cost of all materials, labour, HOM complete as per specifications (P.No-161,I No-21.7)								
	Road	Sqm	From Item num .12				10309.57		
	Basic rate	12.00							
	Area weightage 6%	0.72							
	Sub Total	**12.72**							
	Total						**10309.57**	**12.72**	**131137.68**
14	Providing and laying Bituminous Concrete 40 mm thick with hot mix plant, using crushed aggregates of specified grading, premixed with bituminous binder and filler, transporting the hot mix to work site, laying with a paver finisher to the required grade, level and alignment , rolling with smooth wheeled, vibratory and tandem rollers to achieve the desired compaction in all respects complete as per specifications.Clause 507 of MORTH V revision as per IRC SP-53-2015 - using 40-60 TPH capacity HMP with mechanical Paver, Gr-II (30-45mm) with 5.4 % of modified bitumen binder consisting of 4.97% VG- 30 bitumen (60/70 grade) 0.43% Plastomeric Thermoplastics (Waste plastic Additive). (P.No-171 No-21.78.12)								
	New Road								
	4th Cross Road (From Anathapura Main Road) Entrance								
	Entrance	Cum	1.00	12.60	10.55	0.03	3.99		
	LHS and RHS	Cum	2.00	261.10	5.15	0.03	80.73		

Sl No	Description of work	Unit	Mesurement				Qty	Rate	Amount
			No.	L	B	D			
	Royal Kempegowda Entrance	Cum	1.00	5.00	10.80	0.03	1.62		
	Royal Kempegowda to Vara siddhi Vinayaka Main Road								
	4th Main Road (Double Road) LHS	Cum	1.00	391.50	6.42	0.03	75.39		
	RHS (Varasiddhi Vinayaka temple to Royal Kempegowda Entrance)	Cum	1.00	310.30	4.92	0.03	45.83		
	3rd Main Road	Cum	1.00	7.30	11.80	0.03	2.58		
	LHS	Cum	1.00	34.50	5.00	0.03	5.18		
	RHS	Cum	1.00	34.50	5.00	0.03	5.18		
	LHS	Cum	1.00	85.20	6.32	0.03	16.16		
	RHS	Cum	1.00	66.40	5.00	0.03	9.96		
	LHS	Cum	1.00	74.00	5.92	0.03	13.14		
	RHS	Cum	1.00	62.50	5.00	0.03	9.38		
	LHS	Cum	1.00	77.40	6.26	0.03	14.54		
	RHS	Cum	1.00	72.10	5.78	0.03	12.50		
	Main Road to Commanders Marvels								
	4th Cross Road								
	0.00	Cum	1.00	35.00	7.00	0.03	7.35		
	3rd Cross Road								
	0.00	Cum	1.00	35.00	5.50	0.03	5.78		
	Basic rate	8207.00							
	Area weightage 6%	492.42							
	Sub Total	**8699.42**							
	Total						309.29	8699.42	**2690617.45**
15	KSRRB M800-13.Road Marking with Hot Applied Thermoplastic Compound with Reflectrising Glass Beads on Bituminous Surface/ Concrete Surface: Providing and laying of hot applied thermoplastic compound 2.5 mm thick including reflectorising glass beads at 250 gms per sqm area, thickness of 2.5 mm is exclusive of surface applied glass beads as per IRC:35 standards specified. The finished surface to be level, uniform and free from streaks and holes complete as per specifications. MORTH Specification No. 803(P.No-182,I No-24.15)								
	New Road								
	4th Cross Road (From Anathapura Main Road) Entrance								
	Entrance	Sqm	2.00	12.60	0.10		2.52		
	LHS and RHS	Sqm	4.00	261.10	0.10		104.44		
	Royal Kempegowda Entrance	Sqm	2.00	5.00	0.10		1.00		
	Royal Kempegowda to Vara siddhi Vinayaka Main Road								
	4th Main Road (Double Road) LHS	Sqm	2.00	391.50	0.10		78.30		
	RHS (Varasiddhi Vinayaka temple to Royal Kempegowda Entrance)	Sqm	2.00	310.30	0.10		62.06		
	3rd Main Road	Sqm	2.00	7.30	0.10		1.46		
	LHS	Sqm	2.00	34.50	0.10		6.90		
	RHS	Sqm	2.00	34.50	0.10		6.90		
	LHS	Sqm	2.00	85.20	0.10		17.04		
	RHS	Sqm	2.00	66.40	0.10		13.28		
	LHS	Sqm	2.00	74.00	0.10		14.80		

Sl No	Description of work	Unit	Mesurement				Qty	Rate	Amount
			No.	L	B	D			
	RHS	Sqm	2.00	62.50	0.10		12.50		
	LHS	Sqm	2.00	77.40	0.10		15.48		
	RHS	Sqm	2.00	72.10	0.10		14.42		
	Main Road to Commanders Marvels								
	4th Cross Road								
		Sqm	2.00	35.00	0.10		7.00		
	3rd Cross Road								
		Sqm	2.00	35.00	0.10		7.00		
	At junctions and cross roads	Sqm	2.00	98.00	0.10		19.60		
	Basic rate	429.00							
	Area weightage 6%	25.74							
	Sub Total	**454.74**							
	Total						384.70	454.74	**174938.48**
16.00	KSRRB M800 Road markers/ Road stud , KSRRB M800-35. Supply and Installtion of Moulded Shank Raised Pavement Markers made of polycarbonate and ABS (Acrylonitrile Butadiene Styrene) moulded body and reflective panels with micro prismatic lens capable of providing total internal reflection of the light entering thje lens face and shall support a load of 16000 kg tested in accordance to Specifications of Category A of MORTH Circular No RW/NH/33023/10-97-DO III Dt 11.06.1997.The height, width and length shall not exceed 50mm, 100mm and 102 mm and with minimum reflective area of 13 Sqcm on each side and the slope to the base shall be 35 degree.The strength of detachment of the integrated cylindrical shanks, (of diameter not less than 19mm and height not less than 30mm)from the body is to be a minimum value of 500kg. Fixing will be by drilling holes on the road for the shanks to go inside, without ails and using epoxy resin based adhesive as per manufacture's recommendation and complete as directed by the engineer.(P.No-187,I No-24.41)								
	New Road								
	4th Cross Road (From Anathapura Main Road) Entrance								
	Entrance	M	2.00	12.60			25.20		
	LHS and RHS	M	4.00	261.10			1044.40		
	Royal Kempegowda Entrance	M	2.00	5.00			10.00		
	Royal Kempegowda to Vara siddhi Vinayaka Main Road								
	4th Main Road (Double Road) LHS	M	2.00	391.50			783.00		
	RHS (Varasiddhi Vinayaka temple to Royal Kempegowda Entrance)	M	2.00	310.30			620.60		
	3rd Main Road	M	2.00	7.30			14.60		
	LHS	M	2.00	34.50			69.00		
	RHS	M	2.00	34.50			69.00		
	LHS	M	2.00	85.20			170.40		
	RHS	M	2.00	66.40			132.80		
	LHS	M	2.00	74.00			148.00		
	RHS	M	2.00	62.50			125.00		
	LHS	M	2.00	77.40			154.80		
	RHS	M	2.00	72.10			144.20		
	Main Road to Commanders Marvels								
	4th Cross Road								
		M	2.00	35.00			70.00		
	3rd Cross Road								
		M	2.00	35.00			70.00		
		Nos			**Sub Total**		**3651.00**		

Sl No	Description of work	Unit	Mesurement No.	L	B	D	Qty	Rate	Amount
	Provide Studs for every 3m along Road lenth								
	Number of Studs along Road Length			**Total length/3**			**1217.00**		
	Road Studs for Cross Road Junction	Nos					**437.00**		
	Basic rate	337.00							
	Area weightage 6%	20.22							
	Sub Total	**357.22**							
	Total						**1654.00**	**357.22**	**590841.88**
17.00	Filling in foundation with granite/trap broken metal 100mm and down size ,with approved sand including hand packing, ramming, watering, including cost of all materials and labour with lead up to 50m and lift 1.5m complete as per specifications.								
	a) 40mm Jelly	Cum	5.00		0.31	0.40	0.62		
				(3.142*0.63*0.63)/ 4=0.31					
	Total						0.62	1901.00	**1,178.62**
18.00	Filling in foundation with granite/trap broken metal 100mm and down size ,with approved sand including hand packing, ramming, watering, including cost of all materials and labour with lead up to 50m and lift 1.5m complete as per specifications.								
	b) 20mm Jelly	Cum	5.00		0.31	0.40	0.62		
				(3.142*0.63*0.63)/ 4=0.31					
	Total						0.62	1901.00	**1,178.62**
19.00	Filling in foundation with granite/trap broken metal 100mm and down size ,with approved sand including hand packing, ramming, watering, including cost of all materials and labour with lead up to 50m and lift 1.5m complete as per specifications.								
	c) Coarse sand	Cum	5.00		0.31	0.30	0.47		
				(3.142*0.63*0.63)/ 4=0.31					
	Total						0.47	2651.00	**1,232.72**
20.00	Filling in foundation with granite/trap broken metal 100mm and down size ,with approved sand including hand packing, ramming, watering, including cost of all materials and labour with lead up to 50m and lift 1.5m complete as per specifications.								
	d) Fine sand	Cum	5.00		0.31	0.20	0.31		
				(3.142*0.63*0.63)/ 4=0.31					
	Total						0.31	2651.00	**821.81**
21.00	Filling in foundation with granite/trap broken metal 100mm and down size ,with approved sand including hand packing, ramming, watering, including cost of all materials and labour with lead up to 50m and lift 1.5m complete as per specifications.								
	e) 12.5mm chips	Cum	5.00		0.31	0.30	0.47		
				(3.142*0.63*0.63)/ 4=0.31					
	Total						0.47	1901.00	**883.97**

Sl No	Description of work	Unit	Mesurement No.	L	B	D	Qty	Rate	Amount
25.00	Supplying, laying and jointing HDPE pipes of specified grade and conforming to IS 4984-995 with latest amendments and conveying to work site including loading at both destinations and rolling and lowering into trenches, laying true to line and jointing of pipes and specials, giving hydraulic test as per relevant ISS with all lead and lifts including encasing the pipe alround to a depth of not less than 15 cms. with soft gravel or selected earth available from the excavation, testing and commissioning. The rate is exclusive of required specials and fittings wherever necessary like saddle tee, stud ends, flanged sets, bends, reducers etc. complete (Contractor will make his own arrangements for procuring water for testing) etc. for: HDPE Grade PE80-PN6.0, 630mm dia .(Perforated Pipe for Rain Water Harvesting Pit) (BWSSB SR 2017-18, Pg No 121 Item No. 1.17 code No K010Q)								
	0.63m dia HDPE Perforated Pipe. For 1.8 Mtr depth	Rmt	9.00				9.00		
				1.8X5=9					
	Sub Total	**10822.32**							
	Total						9.00	10822.32	97,400.88
26.00	Providing of Geonets for Rain Water Harvesting pit on the filter media as specified in drawings or as approved by Engineer Incharge								
		Sqm	5.00	0.31			1.56		
				(3.142*0.63*0.63)/4=0.31					
	Sub Total	71.03							
	Total						1.56	71.03	110.72

Administrative Sanction for Rs. 200.00 Two hundred Lakhs
is accorded under head P-3749
Navanagarothana 110 Village grants #mexure-07
Registered as CE
to carry out the work
No EE/YNK/168/2019-20 7/1/2019

	Grand Total 16778784.13
DPR Charges (1% of estimated cost)	200000.00
Project management And Consultancy Charges(1% of estimated cost)	200000.00
GST Charges (12% of estimated cost)	2013454.10
KRIDL Charges (4% of estimated cost)	800000.00
Miscellenious and rounding	7761.77
Total Amount	20000000.00
RUPEES TWO CRORE ONLY	

CERTIFICATE:
1) The work spot has been inspected and found to be necessary
2) The work spot comes under B.B.M.P
3) The provisions made in the estimate are necessary and minimum
4) The estimate is based on C.S.R of 2018-2019,Issue rates and Data Rates.

Executive Engineer

16895980.00
202517.60
675939.20
19594336.20

Assistant Engineer
BBMP

Assistant Executive Engineer
BBMP

Executive Engineer
BBMP

R.V. BUDRAPRASAD CONSULTANTS BANGALORE

Technical Sanction
Accorded For R&D Works
Head of A/C P-3749
CER NO 810 ..... Dt 7/1/19

JA CE (YNK)

Asphalting to main and cross roads at DeoMarvells layout in ward no-03 Yelahanka Satellite Town sub Division